

Abstract

**Warped Plane Phased Array
Monopulse Radar Antenna**

A phased array, phase-amplitude monopulse
5 antenna arrangement for ground, shipboard or airborne
radar systems. The phased array antenna is
systematically warped and projects partially
overlapping, separate beams from upper and lower
regions of the array. A single set of phase-shifters
10 is employed with a simplified feed structure to
permit development of both azimuthal and elevation
angle error signals in signal processing circuitry
for target analysis.